

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of manufacturing a ceramic honeycomb structure, comprising the steps of: attaching sheets onto opposite end faces of a ceramic honeycomb body having a plurality of cells and formed into a honeycomb shape; drilling holes in the sheets at positions corresponding to opening parts of the cells; filling, through the holes, a slurry for sealing into the opening parts of the cells in the opposite end faces of the ceramic honeycomb body; firing the body; and alternately sealing the opening parts of the cells, characterized by comprising the steps of:

forming the ceramic honeycomb body into a shape having at least one reference cell which is different in a shape of the opening part in the end face from the other cells; and

using only the at least one reference cell as a reference point to determine the positions corresponding to the opening parts of the at least one reference cell and the other cells; and

drilling the holes in the sheets alternatively at the determined positions corresponding to the opening part of the at least one reference cell and the other cells to be plugged at the ~~plugging~~filling ~~step by use of only the at least one reference cell as a reference point.~~

2. (Previously Presented) The method of manufacturing the ceramic honeycomb structure according to claim 1, further comprising the steps of: picking up images of the end faces of the ceramic honeycomb body, to which the sheets have been attached; processing the picked-up images; specifying the positions in the sheets, corresponding to the opening part of

the at least one reference cell; and drilling the holes by the use of the at least one reference cell as the reference point.

3. (Previously Presented) The method of manufacturing the ceramic honeycomb structure according to claim 1, further comprising the steps of: drilling the holes by the use of a laser marker.

4. (Previously Presented) The method of manufacturing the ceramic honeycomb structure according to claim 1, further comprising the steps of: drilling the holes by the use of one needle or needles in the form of a needle point holder having pitch intervals corresponding to those of the opening parts of the cells.

5. (Previously Presented) The method of manufacturing the ceramic honeycomb structure according to claim 1, further comprising the steps of: forming a shape of a corner portion of the opening part of the at least one reference cell into a curved shape having a curvature radius in a range of 0.25 to 1.0 time with respect to an opening width of the other cells.

6. (Previously Presented) The method of manufacturing the ceramic honeycomb structure according to claim 5, further comprising the steps of: forming facing corner portions of four adjacent reference cells of the ceramic honeycomb body into curved shapes; and drilling the holes by the use of the four reference cells as reference points.

7. (Previously Presented) The method of manufacturing the ceramic honeycomb structure according to claim 1, further comprising the steps of: forming the ceramic honeycomb body by extrusion forming via a ferrule having the shapes of the opening part of the at least one reference cell.

8. (Previously Presented) The method of manufacturing the ceramic honeycomb structure according to claim 1, further comprising the steps of: dividing the other cells into a

plurality of blocks in such a manner as to include one of the at least one reference cell; and drilling the holes for each of the blocks.

9. (Previously Presented) The method of manufacturing the ceramic honeycomb structure according to claim 1, wherein a ratio of an opening area of each of the holes to an area of the opening part of each of the other cells in the end face is 30 to 70%.

10. (Previously Presented) A ceramic honeycomb structure manufactured by the method of manufacturing the ceramic honeycomb structure according to claim 1.

11. (Previously Presented) The method of manufacturing the ceramic honeycomb structure according to claim 1, further comprising:

identifying the at least one reference cell from an image of an end face of the honeycomb structure picked up by a camera; and

determining a position of the at least one reference cell from the image.